

## **SINGLE POLARIZATION OPTICAL FIBER LASER AND AMPLIFIER**

### **ABSTRACT OF THE DISCLOSURE**

An optically active linear single polarization device includes a linearly birefringent and linearly dichroic optical waveguide (30) for propagating light and having single polarization wavelength range (48). A plurality of active dopants are disposed in a portion (34) of the linearly birefringent and linearly dichroic optical waveguide (30) for providing operation of the waveguide in an operating wavelength range (650) for overlapping the single polarization wavelength range (48).